


Form #:	SDS-015
Revision Date:	06/14/2018
Revision #:	05
Supersedes Date:	05/10/2018

Section 1: Identification					
<b>Product Name:</b>	SaniDate® 12.0	<b>Product Type / Description:</b>	Fungicide / Bactericide / Microbiocide		
<b>Recommended Use:</b>	Sanitizer / Disinfectant for commercial use	<b>Other Means of Identification:</b>	Peracetic Acid, Peroxyacetic Acid, PAA		
<b>Use Restrictions:</b>	It is a violation of federal law to use this product in a manner inconsistent with its labeling.				
<b>Manufacturer:</b>	<b>BioSafe Systems, LLC</b> 22 Meadow Street   East Hartford, CT 06108	<b>EPA Registration #:</b>	70299-18	<b>Canada PMRA Registration #:</b>	N/A
<b>Telephone Number:</b>	1-888-273-3088	<b>Emergency Number: 1-800-424-9300 (CHEMTREC)</b>			

Section 2: Hazard Identification	
<b>GHS Classification</b>	<b>Hazard Statements</b>
Oxidizing Liquid: Category 2 Organic Peroxide: Type F Corrosive to Metals: Category 1 Acute Toxicity (Oral, Dermal, and Inhalation): Category 4 Skin Corrosion: Category 1 Serious Eye Damage: Category 1 Specific Target Organ Toxicity (Single Exposure): Category 3 Hazardous to the Aquatic Environment – Acute Hazard: Category 3	H242: Heating may cause fire. H272: May intensify fire; oxidizer. H290: May be corrosive to metals. H302: Harmful if swallowed. H313: Causes severe skin burns and eye damage. H332: Harmful if inhaled. H335: May cause respiratory irritation. H411: Harmful to aquatic life.
<b>Pictograms</b>	<b>Signal Word</b>
	<b>DANGER</b>
Precautionary Statements	
<b>General</b>	<b>Response</b>
P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P103: Read label before use.	P301+P330+P331: IF SWALLOWED: Rinse mouth. Do not induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340: IF INHALED: Move person to fresh air and keep comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER/doctor. P321: For specific treatments see FIRST AID section on SDS or label. P370+P378: In case of fire: Use water or other suitable extinguishing media. P390: Absorb spillage to prevent material damage.
<b>Prevention</b>	<b>Storage / Disposal</b>
P210: Keep away from heat, sparks or open flames, no smoking. P220: Store away from combustible materials. P221: Take any precautions to avoid mixing with combustibles. P234: Keep only in original container. P260: Do not breathe fumes, mist or vapors. P262: Do not get in eyes, on skin or on clothing. P264: Wash thoroughly after handling. P270: Do not eat, drink, or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves, clothing, eye protection, face protection.	P405: Store locked up. P406: Store in corrosive resistant container, never use metal containers. P410: Protect from sunlight. P411: Store at temperatures not exceeding 55°C (131°F). P420: Store away from incompatible materials.  P501: Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Other Hazards:</b>	Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. When heated to decomposition, emits toxic fumes. Contains an oxidizing material which may accelerate fire.

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### Section 3: Composition / Information on Ingredients

Components	CAS-No	% Composition (w/w)
Hydrogen Peroxide	7722-84-1	18.5%
Peroxyacetic Acid	79-21-0	12.0%
Acetic Acid	64-19-7	20.0%

### Section 4: First-Aid Measures

<b>Eye Contact:</b>	Hold eye(s) open and rinse cautiously with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye(s). Call a poison control center or doctor for treatment advice.
<b>Skin Contact:</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control center or doctor for treatment advice.
<b>Ingestion:</b>	Call poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
<b>Inhalation:</b>	Move person to fresh air. If person is not breathing, call 911. Call poison control center or doctor for treatment advice.

### Section 5: Fire-Fighting Measures

<b>Suitable Extinguishing Media:</b>	Water or water spray.
<b>Unsuitable Extinguishing Media:</b>	None.
<b>Combustion Products:</b>	Oxygen released in thermal decomposition may support combustion.
<b>Unusual Fire and Explosion Hazards:</b>	Contact with combustible material may cause fire. Contact with flammables may cause fire or explosions. Risk of explosion if heated under confinement.
<b>Protective Equipment for Firefighters:</b>	Do not enter fire area without proper protective equipment, including respiratory protection.

### Section 6: Accidental Release Measures

<b>Personal Precautions:</b>	Ensure adequate ventilation. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. Isolate the area and prevent further leakage.
<b>Emergency Procedures:</b>	Ensure clean-up is conducted by trained personnel. Personnel should wear protective equipment outlined in Sections 7 & 8. If facing concentrations above exposure limits personnel shall wear certified respirators.
<b>Environmental Precautions:</b>	Prevent entry to sewers and public waters. Avoid release to the environment.
<b>Methods and Material for Containment and Clean-Up:</b>	Cleanup: Rinse small amounts to drain when possible. Dike or dam large spills, pump to containers or soak in inert absorbent such as sand or diatomaceous earth. Flush residue to sanitary sewer, rinse area thoroughly with clean water. Do not add additional chemical products or combustible material such as sawdust. Waste Disposal: Consult state and local authorities for restrictions on disposal of chemical wastes.

### Section 7: Handling and Storage

<b>Handling:</b>	Wear protective gloves/eye protection/face protection/body, skin protection. Wash thoroughly after handling. Avoid breathing fumes/mist/vapors. Use only outdoors or in a well-ventilated area. Use only compatible equipment.
<b>Storage:</b>	Keep away from heat. Keep only in original container. Protect from sunlight. Store at temperatures not exceeding 55°C (131°F). Never return product back to the original container. Store in cool, ventilated area. Never use metal containers or spigots. Use vented container.
<b>Incompatible Materials:</b>	Store away from combustible materials. Keep concentrate away from reactive substances. Organic materials.

### Section 8: Exposure Controls / Personal Protection

#### Components with Workplace Control Parameters

Component	ACGIH	NIOSH	OSHA
Acetic Acid	TWA: 10 ppm STEL: 15 ppm	TWA: 25 mg/m <sup>3</sup> - 8 hours. TWA: 10 ppm - 8 hours.	TWA: 25 mg/m <sup>3</sup> - 8 hours. TWA: 10 ppm - 8 hours.
Hydrogen Peroxide	TWA: 1 ppm	TWA: 1.4 mg/m <sup>3</sup> - 8 hours. TWA: 1 ppm - 8 hours.	TWA: 1.4 mg/m <sup>3</sup> - 8 hours. TWA: 1 ppm - 8 hours.
Peracetic Acid	STEL: 0.4 ppm		
<b>Engineering Controls:</b>	Ensure adequate ventilation. Emergency eye wash station and emergency shower should be available in the immediate vicinity of any potential exposure.		
<b>General Hygienic Practices:</b>	Do not eat, drink or smoke during use.		
<b>Respiratory Protection:</b>	Use NIOSH-approved air-purifying or supplied air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits. Full face respirator with organic vapor/acid gas cartridges is recommended.		
<b>Eye / Face Protection:</b>	Chemical goggles or face shield.		
<b>Hands:</b>	Chemical resistant gloves.		
<b>Skin / Body:</b>	Wear suitable protective clothing. Apron and boots made of butyl rubber for high risk exposure.		

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### Section 9: Physical and Chemical Properties

<b>Appearance:</b>	Clear, colorless liquid.	<b>Odor:</b>	Pungent, vinegar-like.	<b>Odor Threshold:</b>	Not available.
<b>pH:</b>	<1.5	<b>Specific Gravity:</b>	1.13 g/cm <sup>3</sup>	<b>Viscosity:</b>	Not available.
<b>Melting Point:</b>	Not available.	<b>Freezing Point:</b>	-30°C (-22°F)	<b>Boiling Point:</b>	Not available.
<b>Flash Point:</b>	Not available.	<b>Flammability:</b>	Not available.	<b>Flammability Limits:</b>	Not available.
<b>Vapor Pressure:</b>	22 mm Hg (25°C)	<b>Vapor Density:</b>	Not available.	<b>Solubility:</b>	Complete in water.
<b>Evaporation Rate:</b>	Not available.	<b>Auto-Ignition Temperature:</b>	Not available.	<b>Decomposition Temperature:</b>	Self-accelerating decomposition temperature > 55°C
<b>Relative Density:</b>	Not available.	<b>Partition Coefficient n-octanol / water:</b>	-1.25 log Pow		

### Section 10: Stability and Reactivity

<b>Stability:</b>	Stable under recommended storage conditions. Potential for exothermic hazard.
<b>Conditions to Avoid:</b>	Open flames, elevated temperatures, heat sources, direct sunlight. Combustible materials. Contamination.
<b>Incompatible Materials:</b>	Acids, Bases, Metals, Salts of metals, Reducing agents, Organic materials, Flammable materials
<b>Hazardous Decomposition Products:</b>	Thermal decomposition generates corrosive vapors, acetic acid and oxygen which supports combustion.

### Section 11: Toxicological Information

#### Acute Toxicological Data

<b>Oral LD50:</b>	Rat, 330 mg/kg (7% solution)	<b>Dermal LD50:</b>	Rabbit, 1410 mg/kg (10% solution)	<b>Inhalation LC50:</b>	Rat, 1 hour - 590 mg/m <sup>3</sup> (Peracetic Acid)
<b>Likely Routes of Exposure:</b>	Inhalation, eye contact, skin contact.				
<b>Symptoms and Effects</b>					
<b>Condition</b>	<b>Acute Effects</b>		<b>Chronic (Delayed) Effects</b>		
<b>Eye Contact:</b>	Causes serious eye damage.		None.		
<b>Skin Contact:</b>	Causes severe skin burns.		Persistent irritation.		
<b>Inhalation:</b>	May cause respiratory tract irritation.		None.		
<b>Ingestion:</b>	Harmful if swallowed.		None.		

### Section 12: Ecological Information

<b>Ecotoxicity:</b>	<b>Acute</b>	Fresh water fishes, <i>Salmo gairdneri</i> , LC50, 96 h, 13 mg/L; NOEC, pigmentation, <10 mg/L	<b>Chronic</b>	Fishes, various species, LC50 – no data available; NOEC – no data available.
		Salt water fishes, <i>Pleuronectes platessa</i> , LC50, 96 h, 89.1 mg/L (12 % solution); NOEC, 56 mg/L		Algae, various species, EC50, 72 - 96 h, 0.7 - 16 mg/L
		Fresh water crustaceans, <i>Daphnia magna</i> , EC50, 48 h, 3.3 mg/L; NOEC, 1 mg/L		
		Salt water crustaceans, <i>Crangon crangon</i> , EC50, 96 h, 126.8 mg/L (12 % solution); NOEC, 56 mg/L		
		<b>Other:</b> Bacteria, <i>Pseudomonas aeruginosa</i> , EC100, 5 min, 5 mg/L; Terrestrial plants, various species, Lowest observable effect level, 10 mg/L – phytotoxic effect		
<b>Persistence and Degradability:</b>	<b>Abiotic degradation:</b> Air - can be degraded by abiotic (e.g. chemical or photolytic) processes; Water, t 1/2 (Hydrolysis) ca. 120 h Chemical degradation; Soil, 99 %, < 0.5 h (1 % solution) Chemical degradation. <b>Biodegradation:</b> Aerobic – non-biodegradable closed bottle, readily biodegradable 2 mg/l, > 70 %, 28 d; anaerobic - no data available, Effects on waste water treatment plants inhibitory action at 90 mg/L, BOD increase of treated effluent by acetic acid formation.			
<b>Bioaccumulation Potential:</b>	Does not bioaccumulate.			
<b>Mobility in Air/Water/Soil:</b>	Non-significant air volatility; soluble in water; non-significant adsorption in soil.			
<b>Other Adverse Effects:</b>	No data available.			


### Section 13: Disposal Considerations

<b>Waste from Residues and Unused Product:</b>	Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations. Small quantities – dilute with plenty of water and flush into sewer system. Large quantities require notification to manufacturer.
<b>Contaminated Container Disposal:</b>	Do not reuse or refill this container. Triple rinse empty containers with clean water and dispose of rinsate in accordance with local regulations. Clean and empty containers can be recycled by qualified contractors. Considered D001 and D002 waste by RCRA 40CFR32.

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Section 14: Transport Information						
	UN Number	UN Proper Shipping Name	Hazard Class (Subsidiary)	Label (Subsidiary)	Packing Group	Marine Pollutant
<b>US DOT</b>	3109	Organic peroxide type F, liquid (Peroxyacetic Acid <43%)	5.2 (8)	Organic Peroxide (Corrosive)	N/A	NO
<b>TDG</b>	3109	Organic peroxide type F, liquid (Peroxyacetic Acid <43%)	5.2 (8)	Organic Peroxide (Corrosive)	N/A	NO
<b>Special Precautions:</b>		Shipping Container: UN Certified vented polyethylene				

Section 15: Regulatory Information						
<b>TSCA Inventory List:</b>	Yes	<b>US EPA CERCLA Hazardous Substances:</b>		Acetic Acid 5000 lbs.		
<b>SARA Title III Sec. 302/303</b>	Peracetic Acid; Hydrogen Peroxide		<b>Sec. 302 TPQ:</b>		Peracetic Acid 500 lbs.	
<b>SARA Title III Sec. 311/312</b>	Peracetic Acid	<b>Hazard Category:</b>		Acute Health, Reactivity, Fire	<b>Sec. 304 EHS RQ:</b> Peracetic Acid 500 lbs.	
<b>US EPA EPCRA Sec. 313</b>	Peracetic Acid		<b>CAA Threshold Qty:</b>		10000 lbs.	
<b>NFPA Rating</b>	<b>Health:</b> 3	<b>Flammability:</b> 1	<b>Reactivity:</b> 2	<b>Special:</b> OX (Oxidizer)		
<b>HMIS Rating</b>	<b>Health:</b> 3	<b>Flammability:</b> 1	<b>Physical:</b> 2	<b>PPE:</b> Recommended.		
<b>CAN WHMIS Classification</b>	<b>C – Oxidizing; E – Corrosive; F – Dangerously Reactive</b>					
<b>California Prop 65</b>	This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.					
<b>EPA</b>	This product is a registered sanitizer / disinfectant with the United States Environmental Protection Agency and is subject to EPA labeling requirements under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). These requirements may differ from the classification criteria and hazard information required for a safety data sheet under the Global Harmonized Systems (GHS), and for workplace labels of non-pesticide chemicals. It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Always refer to product label for further precautionary information and use directions.					

Section 16: Other Information	
According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations	
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### Key to Abbreviations

ACGIH - American Conference of Governmental Industrial Hygiene	TWA - Time-Weighted Averages are based on 8h/day, 40h/week exposures
NIOSH - National Institute of Occupational Safety and Health	STEL - Short Term Exposure Limits are based on 15-minute exposures
OSHA - Occupational Safety and Health Administration	STEV - Short Term Exposure Value
EHS - Environmental Health and Safety	PEL - Permissible Exposure Limit
DOT - Department of Transportation	CAN TDG - Canadian Transportation of Dangerous Goods
EPA - Environmental Protection Agency	TSCA - Toxic Substances Control Act
TPQ - Threshold Planning Quantity	RQ - Reportable Quantity
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act	SARA - Superfund Amendments and Reauthorization Act
NFPA - National Fire Protection Association	HMIS - Hazardous Materials Identification System
WHMIS - Workplace Hazardous Materials Information System (Canada)	EPCRA - Emergency Planning and Community Right-to-Know Act